

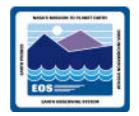
# Creating a New ESDT Drill-Down

### **Michael Burnett**

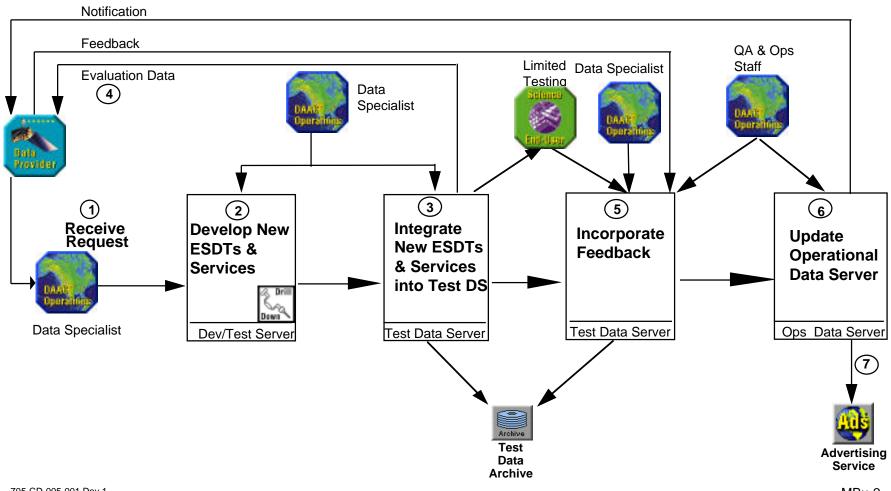
mburnett@eos.hitc.com

30 October 1995

## **Building ESDTs & Services for a** Collection



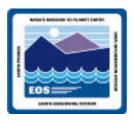
### **Functional Flow**



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## **Overview**



#### **New ESDTs**

- Data objects offered by the Data Server are typed into ESDTs
- Point of customization for DAACs and Data Servers to support different data products
- ECS providing the first set of ESDTs (See Data Type Services Matrix, DID 304-CD-005-001, App. F)
- Further detail in DID 305, Volume 24

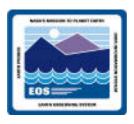
#### **ECS Context**

Data Server Subsystem

#### Scenario Context

- Push Scenario
  - Building the Collection & Services
  - Advertising Collection at the Collection Level
  - Creating Extensions
  - Advertising Extensions

# **Design Drivers**

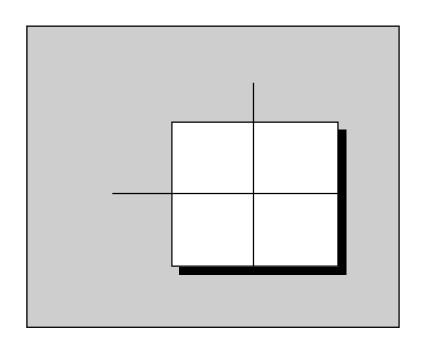


#### **Architectural Drivers**

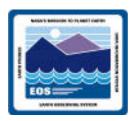
- Need for support of different types of data
- Need for support of different services
- Need to support dynamic types and services
- No impact to operational system

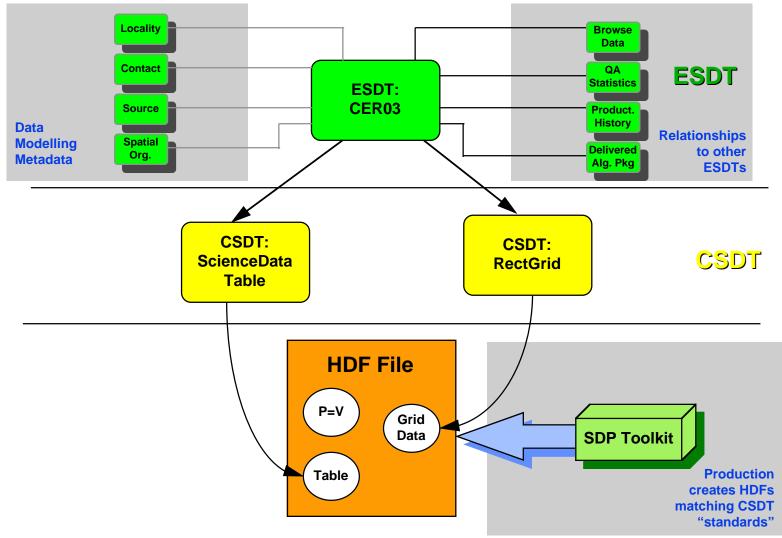
#### **New Release B features**

- No architectural changes
- Administration Tools
- Set of Data Types



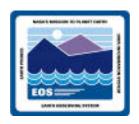
## **General ESDT Model**

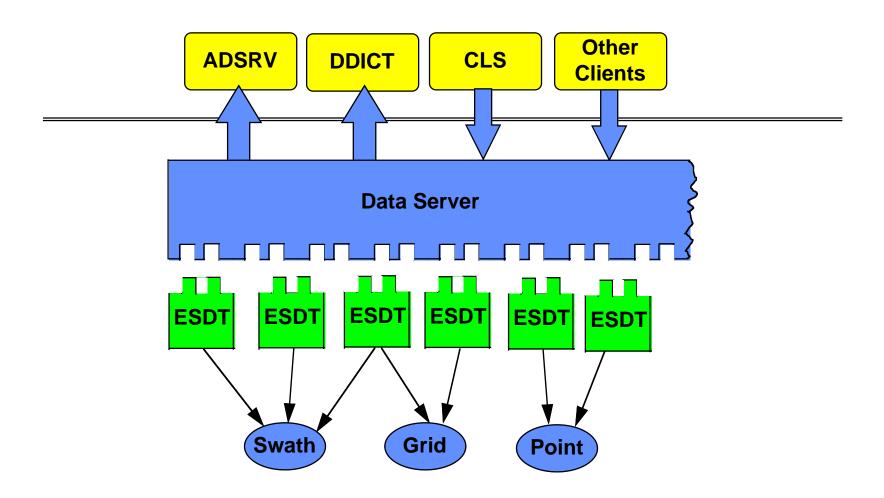




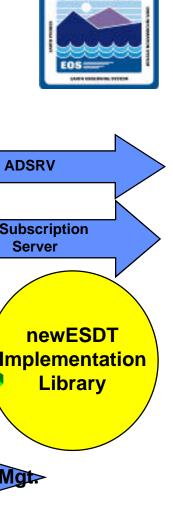
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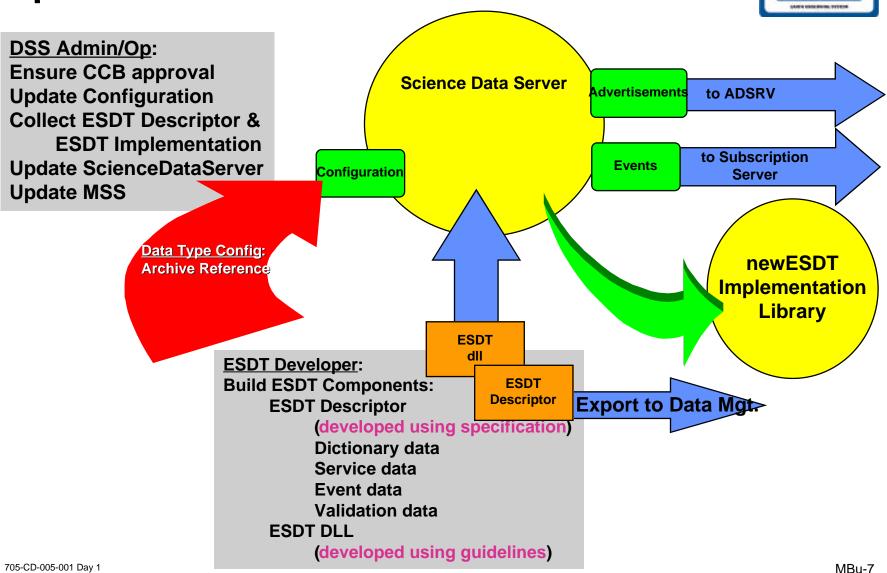
## **ESDTs** in the Data Server



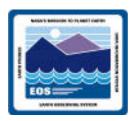


Adding a new ESDT – **Operational Overview** 





# **Evolutionary Features**



### **Potential Future Enhancements**

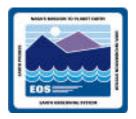
- Operational/Administration Tools
- Extension of types and services
- Service Implementations

### **Scalability**

- Module concept allow ESDTs to be implemented as part of any number of data servers
- Separation of Implementation from Interface allows tremendous flexibility in how services are implemented

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## **Current Status**



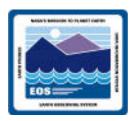
### **COTS Selections**

• HDF (as part of EOS-HDF, for some service implementations)

### **Next Steps**

- Stability of the initial ESDTs
- Operational and Developer Document on ESDTs

# Summary



### Adding a new ESDT highlights

- ESDTs are the objects that the Data Server offers
- ESDT Descriptor is single source point of ESDT descriptive information
- Supports varied Service Implementations
- Allow run-time changes
- Directly supports extensibility